

-10.1

* # Z . .

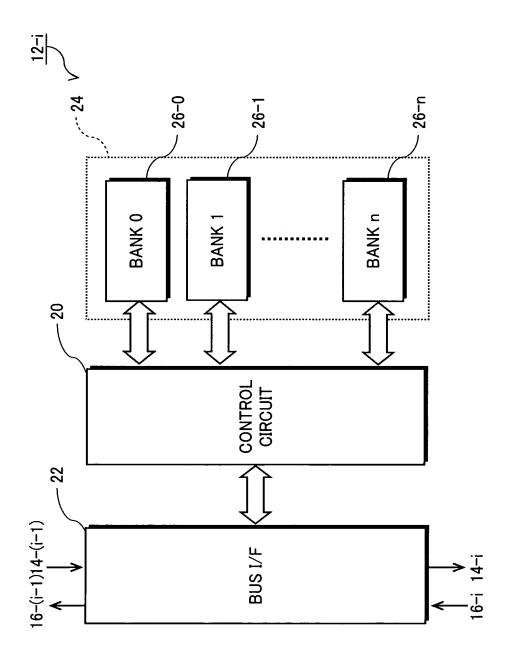


FIG.2

FIG.3

	GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)
0	FEMALE	18	168	55
1	MALE	21	172	64
2	FEMALE	24	159	48
3	FEMALE	16	172	48
4	MALE	28	181	78
5	FEMALE	20	166	55
6	FEMALE	16	168	52
7	MALE	33	174	65
8	MALE	24	177	64
9	FEMALE	18	170	55

_	
WEIGHT	VNo VL 1 3 1 52 2 0 2 55 3 64 4 5 4 65 5 2 78 5 2 5 78 6 1 ASCENDING 7 4 ORDER
HEIGHT	VL 1 166 2 168 3 170 4 172 5 174 6 177 6 177 ORDER
	VNo 1 2 0 2 3 4 4 5 1 1 4 7 7 9 9 9 9 9 9
AGE	VL 1 16 1 18 2 20 3 21 4 24 5 28 6 33 ASCENDING ORDER
	VNO 1 2 2 4 3 1 0 0 4 4 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GENDER	VL 0 MALE 1 FEMALE ASCENDING ORDER
)	VNO 1 1 0 1 2 1 0 1 5 1 0 0 1 6 0 1 9 0 0
	OrdSet 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

FIG.4

FIG.5

OFFSET= 0

PMM-0

	GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)
0	FEMALE	18	168	55
1	MALE	21	172	64
2	FEMALE	24	159	48

OFFSET= 3

PMM-1

	GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)
0	FEMALE	16	172	48
1	MALE	28	181	78

OFFSET= 5

PMM-2

	GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)
0	FEMALE	20	166	55
1	FEMALE	16	168	52
2	MALE	33	174	65

OFFSET= 8

PMM-3

	GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)
0	MALE	24	177	64
1	FEMALE	18	170	55

ASCENDING ORDER ASCENDING WEIGHT (PMM-1) ASCENDING ORDER ASCENDING ASCENDING ORDER ASCENDING ORDER HEIGHT (PMM-0) HEIGHT (PMM-1) ASCENDING ORDER ASCENDING ASCENDING ORDER AGE (PMM-0) AGE (PMM-1 ASCENDING ORDER <u>∞</u> 1 FEMALE 1 — ASCENDING ASCENDING ORDER ORDER ASCENDING ASCENDING ORDER GENDER (PMM-1 FEMALE MALE MALE GOrd OrdSet **GOrd OrdSet** ASCENDING ASCENDING ORDER ORDER

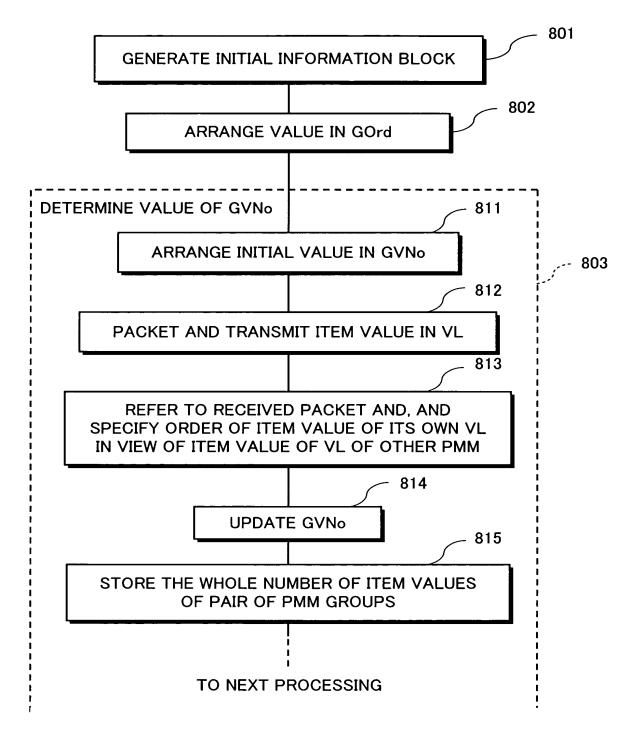
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ORDER

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		 _			_
WEIGHT (PIMM-2)	VNo VL GVNo 0 1 0 52 0	WEIGHT (PIMM-3)	VNo : VL GVNo	0 1 0 55 0 -	ASCENDING ASCENDING ORDER
HEIGHT (PMM-2)	0 0 0 166 0 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HEIGHT (PMM-3)	VNo i VL GVNo	0 1 0 170 0 -	ASCENDING ASCENDING ORDER
AGE (PMM-2)	VNo VL GVNo 1 1 0 1 0 0 - 1 0 0 0 0 0 0 0 0 0 0 0 0	AGE (PMM-3)	VNo i VL GVNo	0 1 0 18 0 - 1 0 1 24 1 -	ASCENDING ASCENDING ORDER
GENDER (PMM-2)	VNo VL GVNo 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GENDER (PMM-3)	VNo VL GVNo	0 0 0 MALE 0 - 1 1 FEMALE 1 -	ASCENDING ASCENDING ORDER
	GOrd OrdSet O = 0 1 = 1 2 = 2 ASCENDING ORDER		GOrd OrdSet	0 - 0	ASCENDING

FIG.8



GOrd OrdSet GOrd OrdSet GOrd OrdSet GOrd OrdSet ASCENDING ORDER ASCENDING ORDER ASCENDING ORDER ASCENDING ORDER (G) \odot GOrd OrdSet GOrd OrdSet GOrd OrdSet GOrd OrdSet ASCENDING ORDER ASCENDING ORDER ASCENDING ORDER ASCENDING ORDER ı WEIGHT(kg) WEIGHT(kg) HEIGHT(cm) | WEIGHT(kg) HEIGHT(cm)|WEIGHT(kg) 48 78 55 52 65 64 55 55 48 48 HEIGHT(cm) HEIGHT(cm) 166 168 174 168 172 159 181 AGE AGE AGE 16 28 AGE 20 33 16 33 24 18 PMM-0 18 24 PMM-2 PMM-3 PMM-1 GENDER FEMALE GENDER FEMALE MALE FEMALE FEMALE MALE FEMALE GENDER GENDER MALE FEMALE MALE OFFSETÉ 🕅 OFFSET{ 0} OFFSET€ 5) OFFSET€ ③

FIG.9

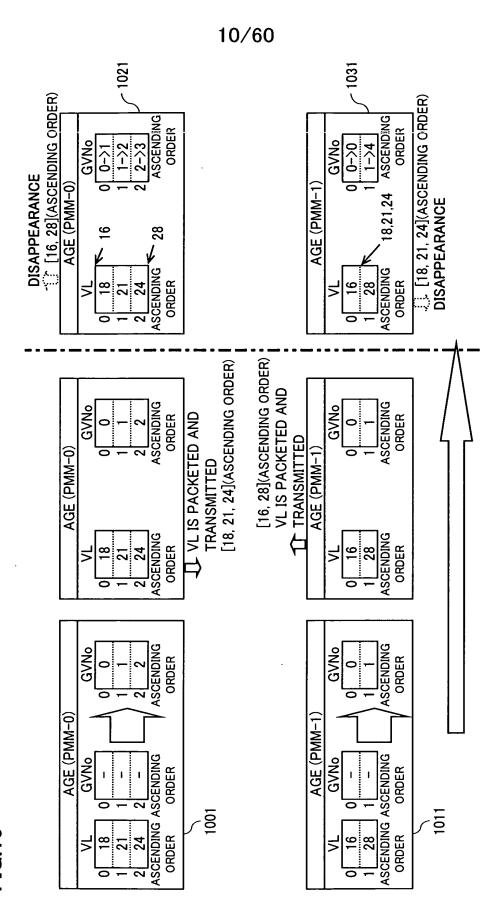


FIG.10

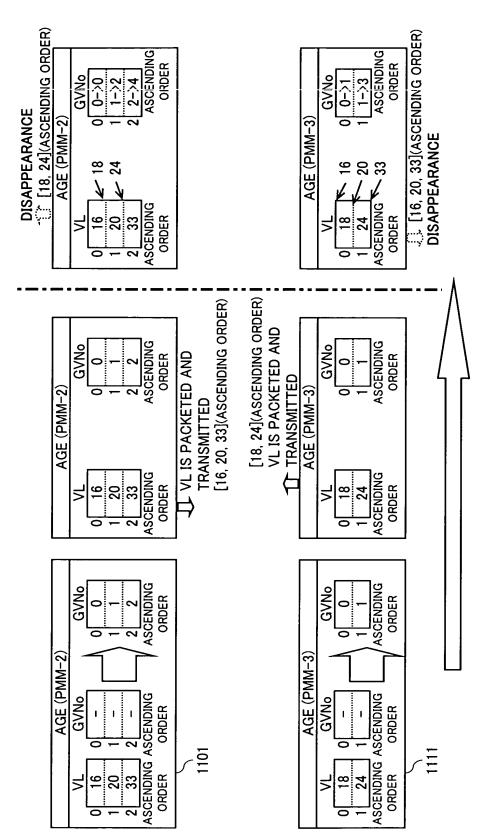
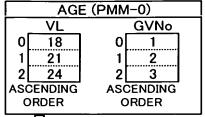


FIG.11

FIG.12



VL IS PACKETED AND TRANSMITTED

[-, 18, 21, 24, -]
(ASCENDING ORDER)

	AGE (PMM-1)			
VL		GVNo		
0	16	0 0		
1	28	1 4		
ASCENDING		ASCENDING		
0	ORDER	ORDER		

	AGE (PMM-2)				
	٧L		GVNo		
0	16	0	0		
1	20	1	2		
2	33	2	4		
ASCENDING		ASC	CENDING		
	RDER	C	RDER		

(ASCENDING ORDER)

[-, 18, -, 24, -]

VL IS PACKETED

1 AND TRANSMITTED

AGE (PMM-3)				
VL	GVNo			
0 18	0 1			
1 24	1 3			
ASCENDING	ASCENDING			
ORDER	ORDER			

AGE	(PMM-0)		
VL	GVNo		
0 18	0 1		
1 21	1 2		
2 24	2 3		
ASCENDING	ASCENDING		
ORDER	ORDER		

	AGE (PMM-1)				
	VL	_GVNo_			
0	16	0 0			
1	28	1 4			
ASC	ENDING	ASCENDING			
0	RDER	ORDER			
	Ţ.				

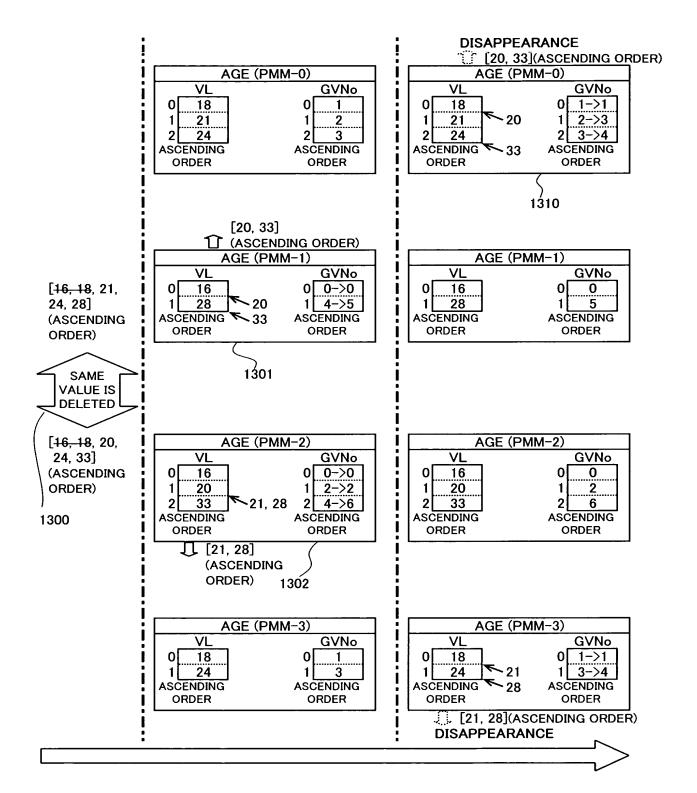
[16, 18, 21, 24, 28] (ASCENDING ORDER)

(ASCENDING ORDER) [16, 18, 20, 24, 33]

	AGE (PMM-2)						
VL			GVNo				
0	16	0	0				
1	20	1	2				
2[33	2	4				
ASCENDING		ASCENDING					
ORDER		ORDER					

AGE (PMM-3)						
	VL	GVNo				
0	18	0	1			
1	24	1	3			
ASCENDING		ASCENDING				
	ORDER	C	ORDER			

FIG.13



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FIG.14A

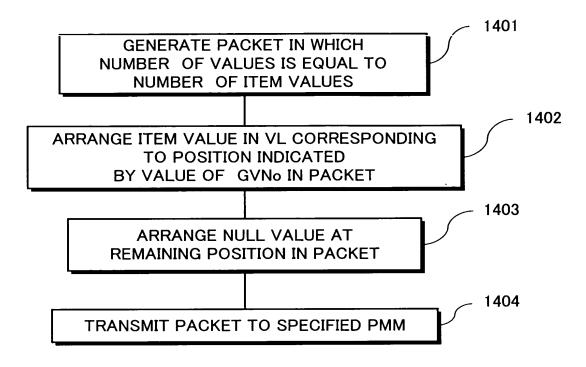
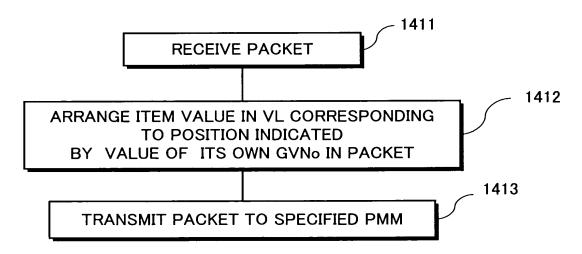


FIG.14B



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FIG.15A

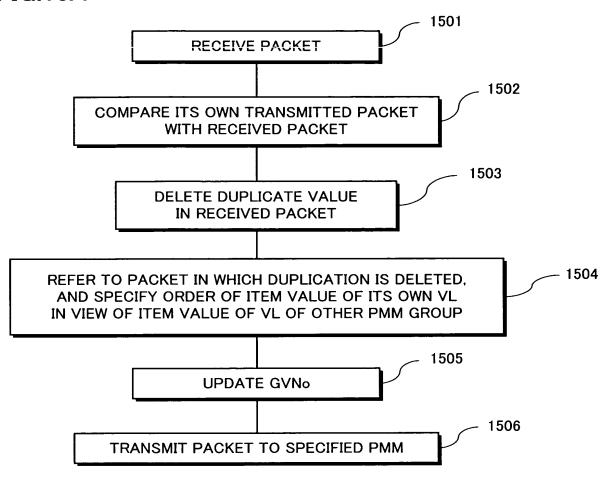


FIG.15B

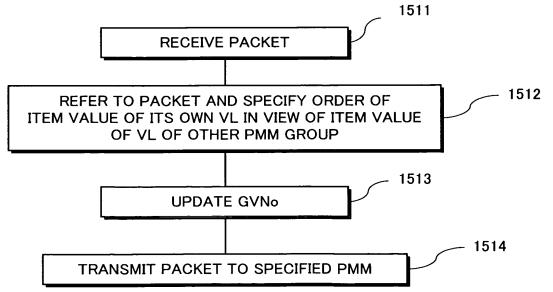
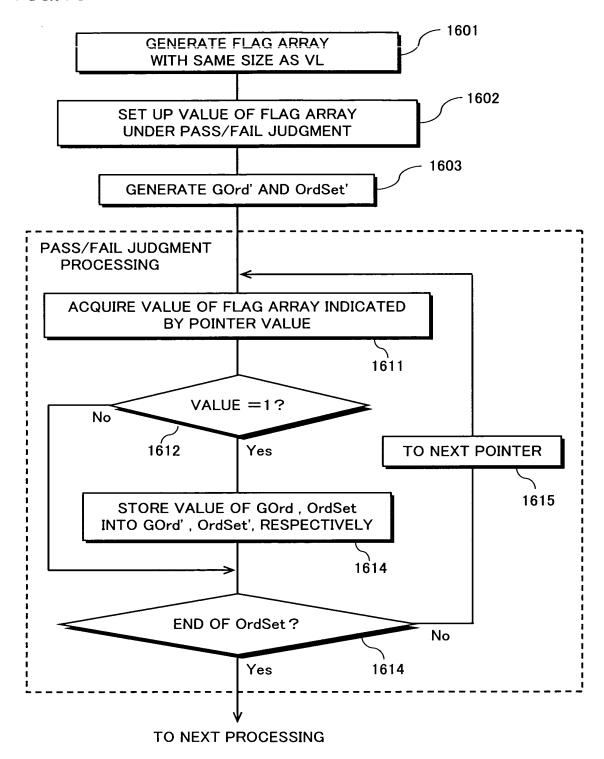
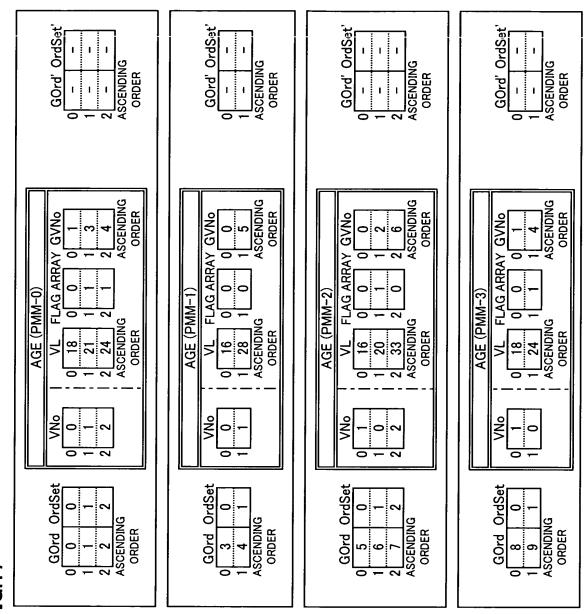


FIG.16



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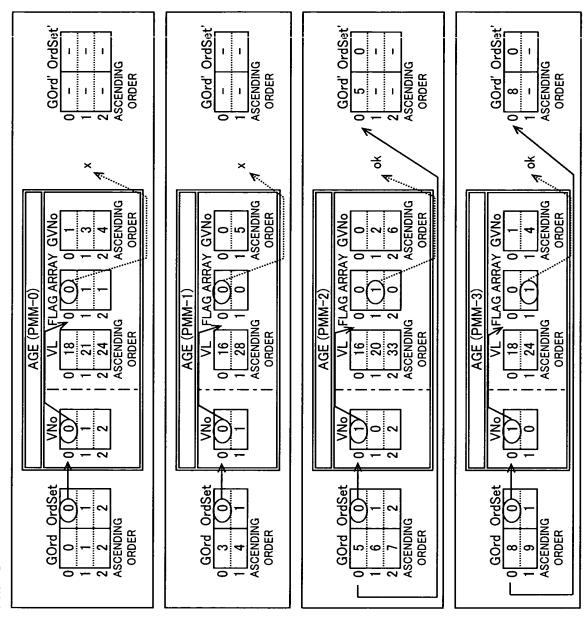


FIG.18

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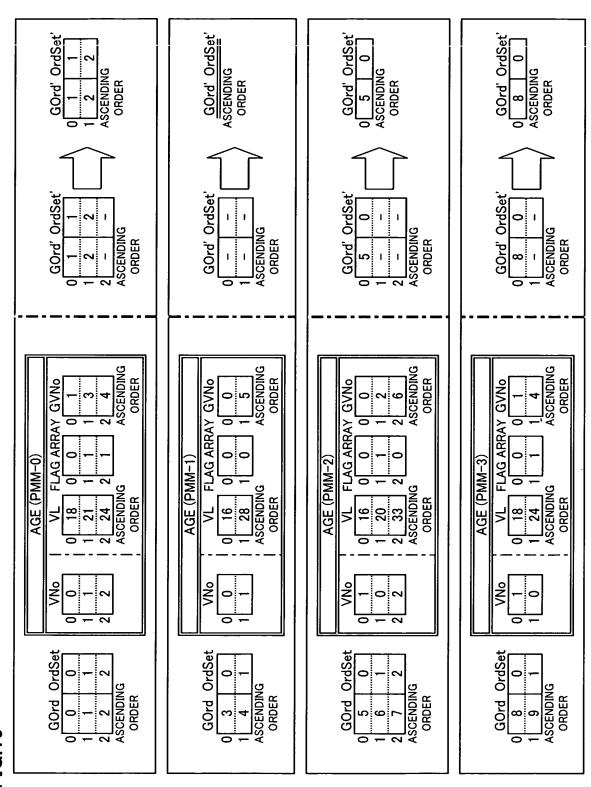
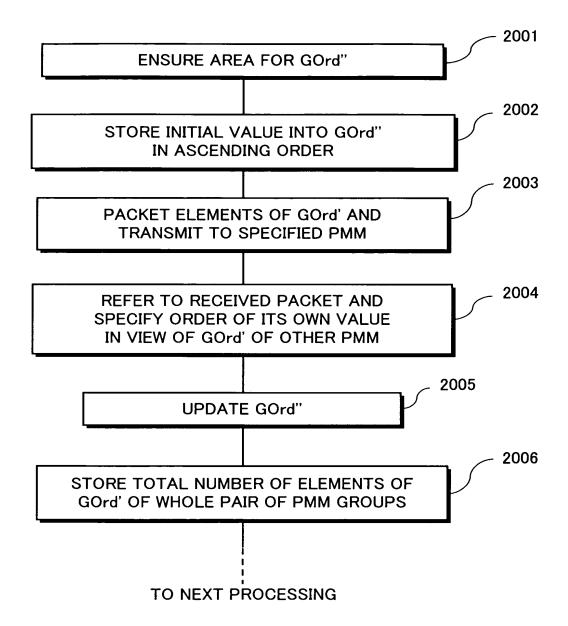


FIG.19

FIG.20



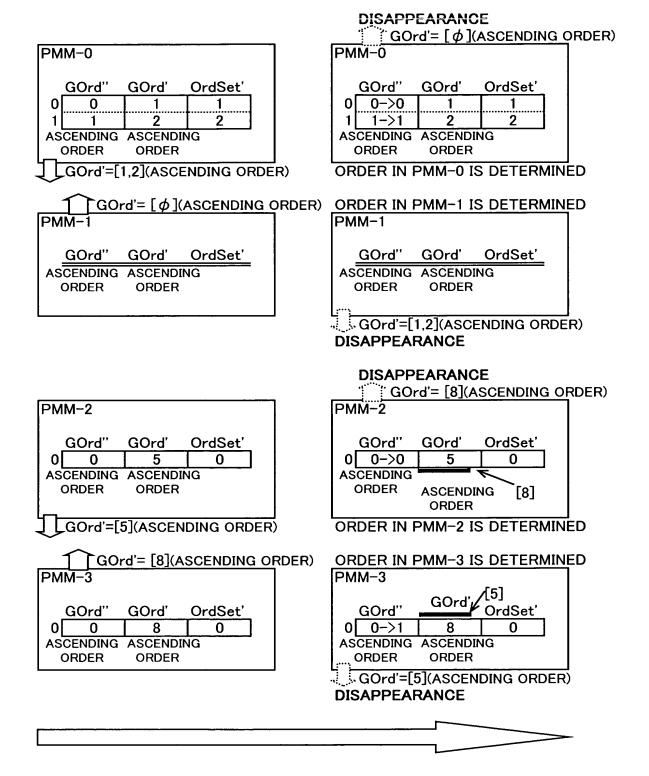


FIG.22A

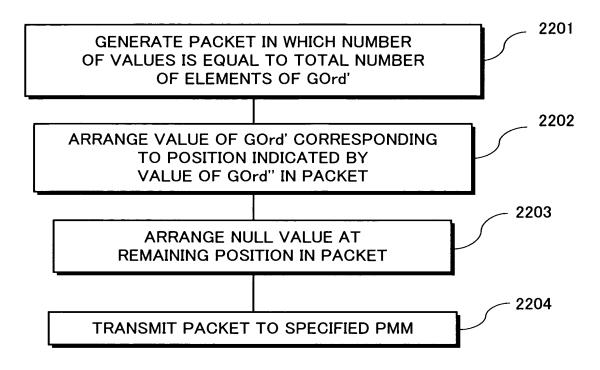
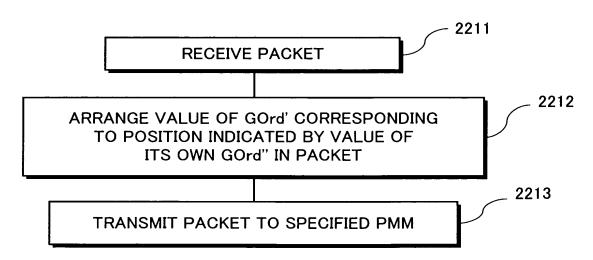
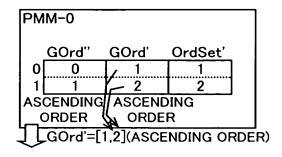
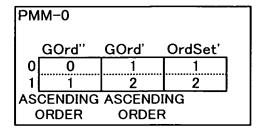
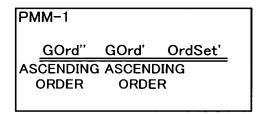


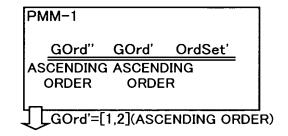
FIG.22B

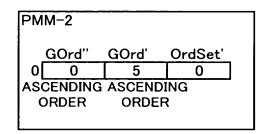


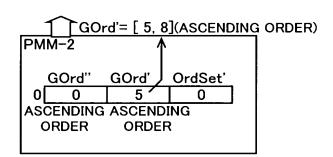


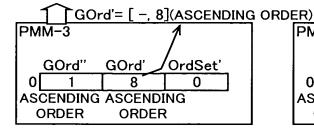


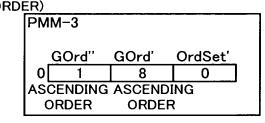












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FIG.24

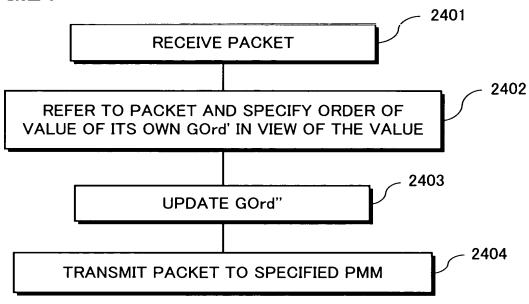
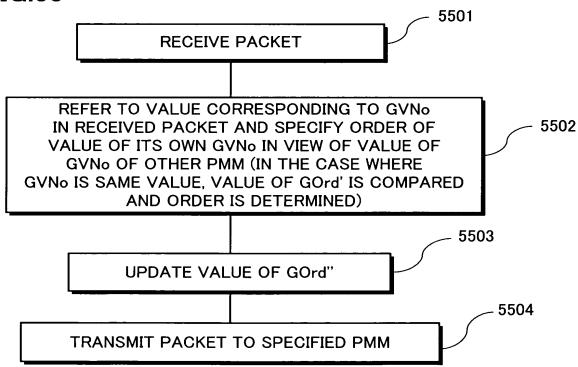
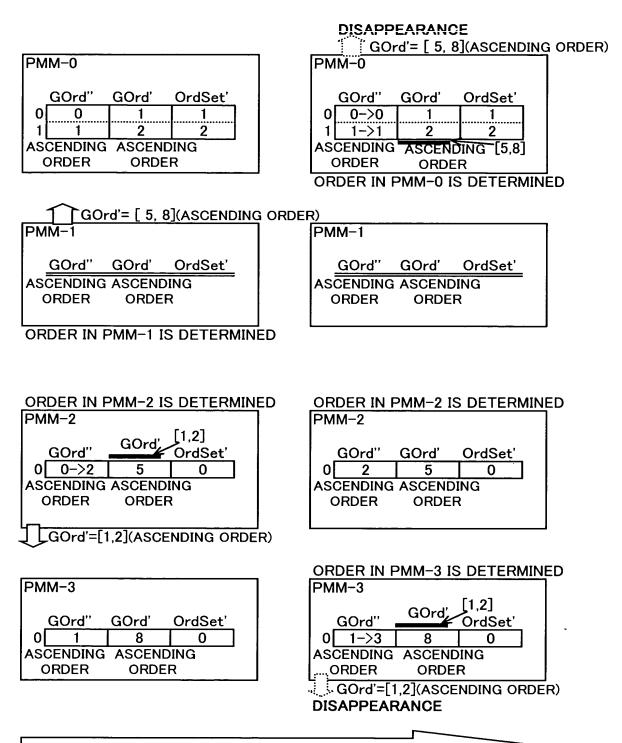
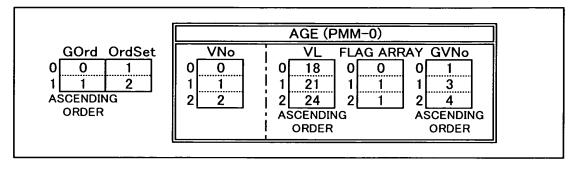
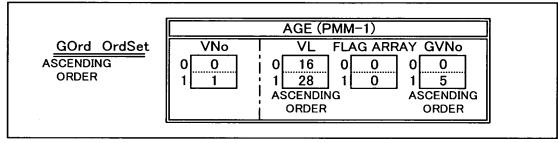


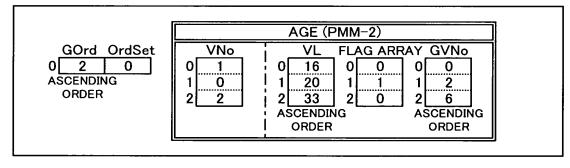
FIG.55











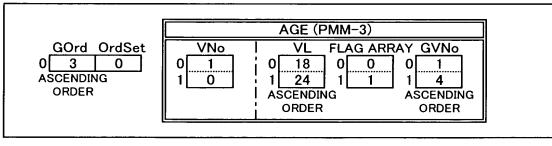
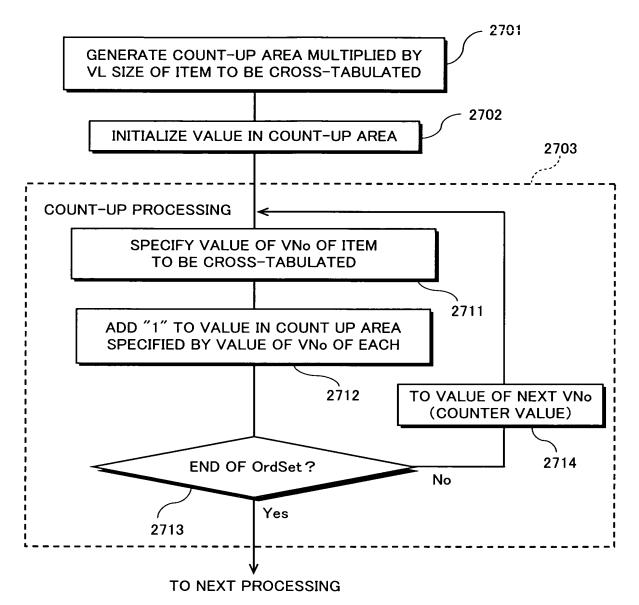
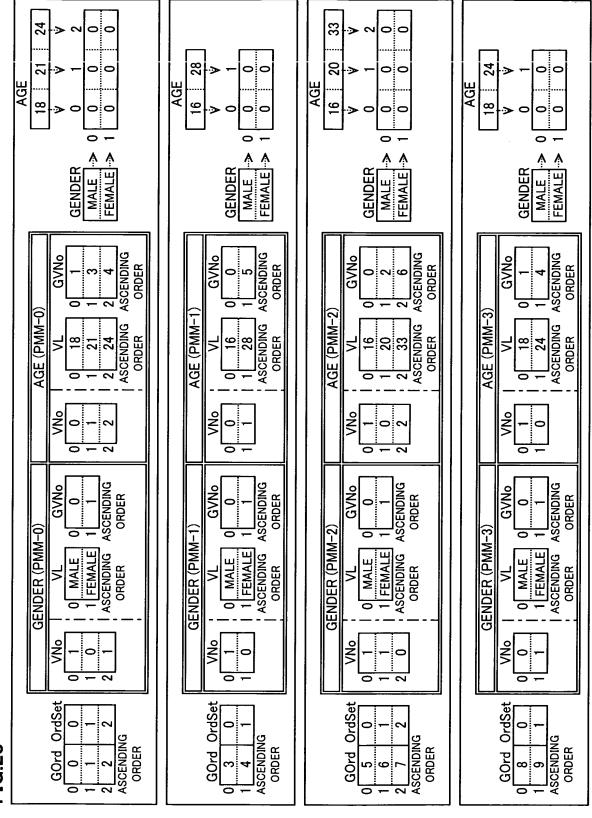


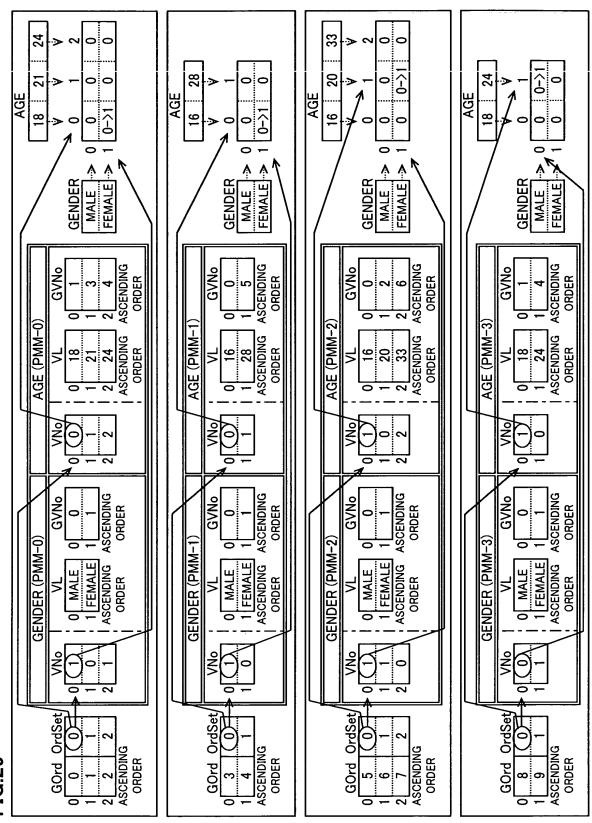
FIG.27



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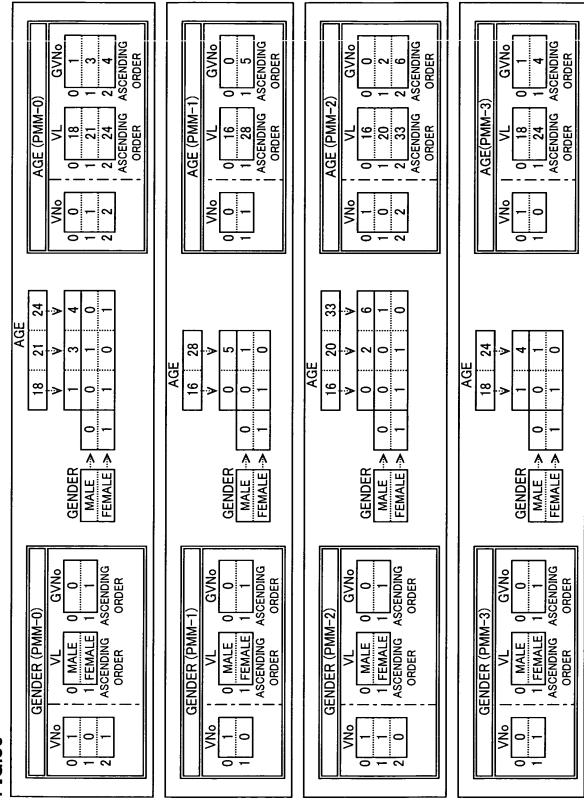


FIG.30

FIG.31A

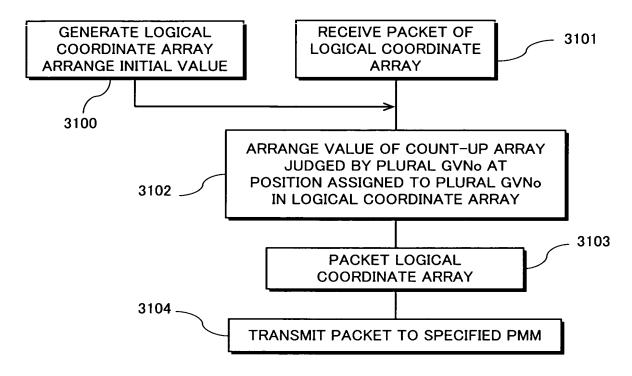


FIG.31B

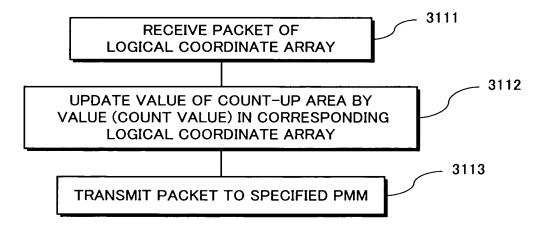
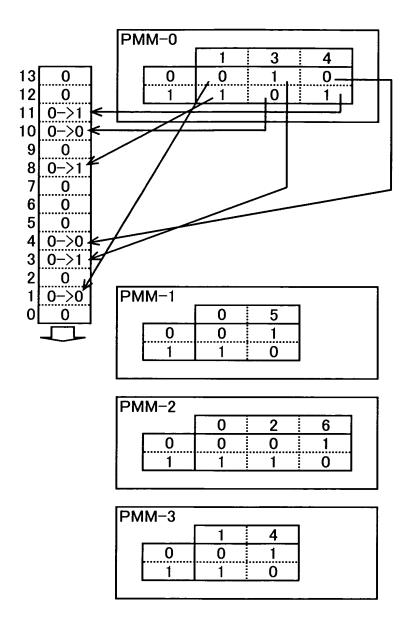


FIG.32



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FIG.33

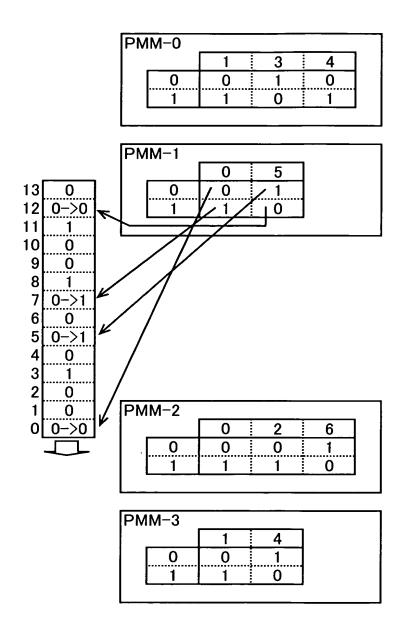


FIG.34

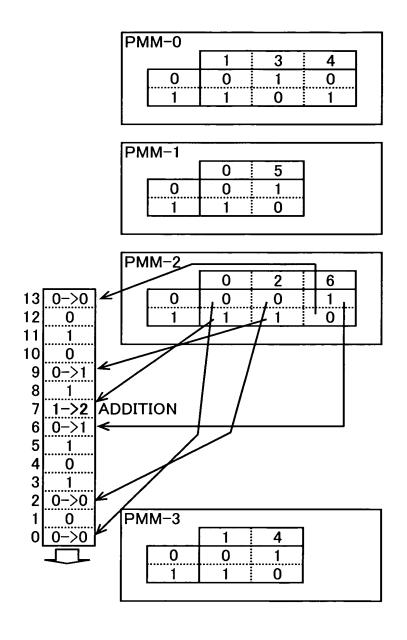
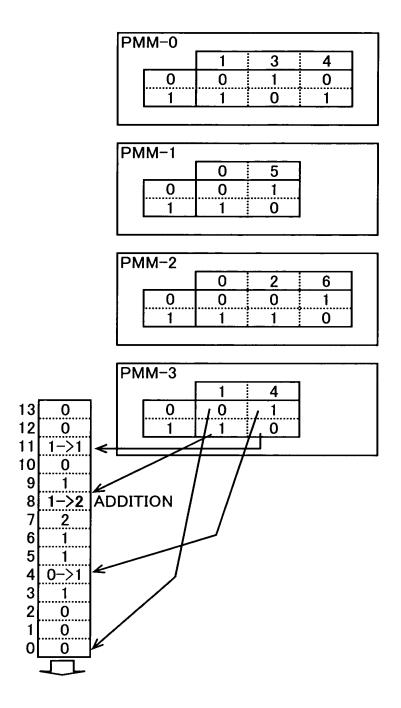


FIG.35



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FIG.36

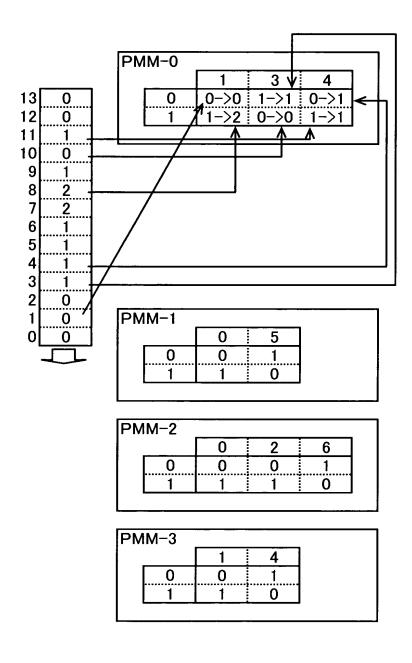
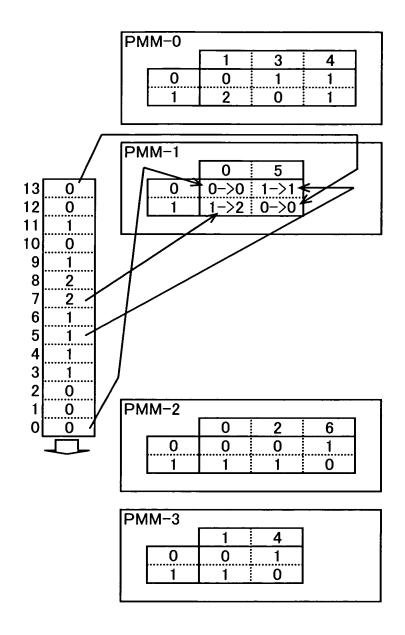


FIG.37



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FIG.38

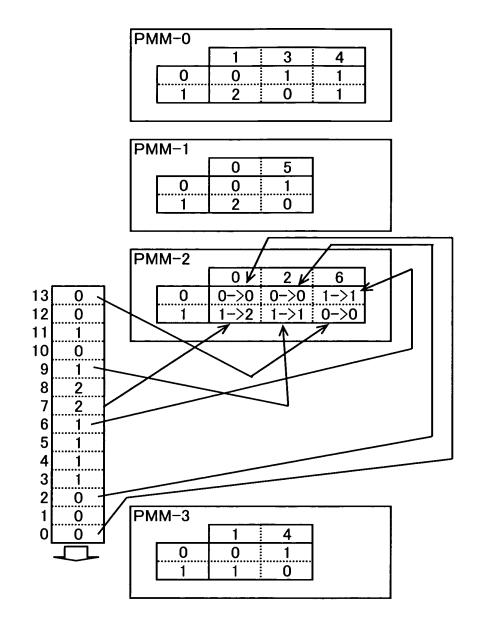
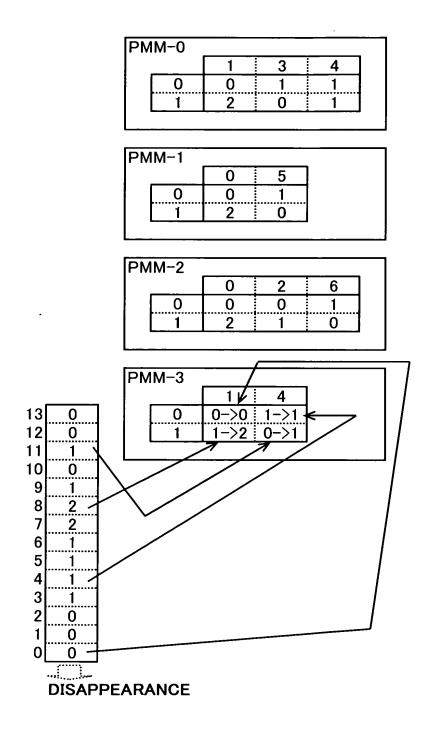


FIG.39



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FIG.40

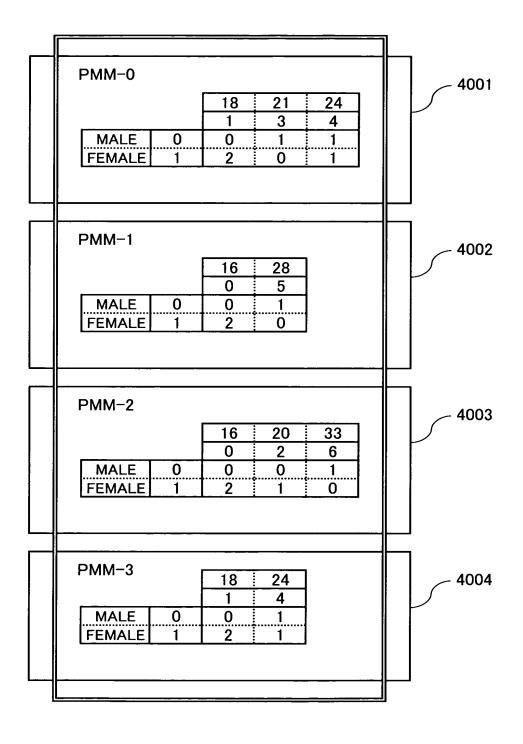
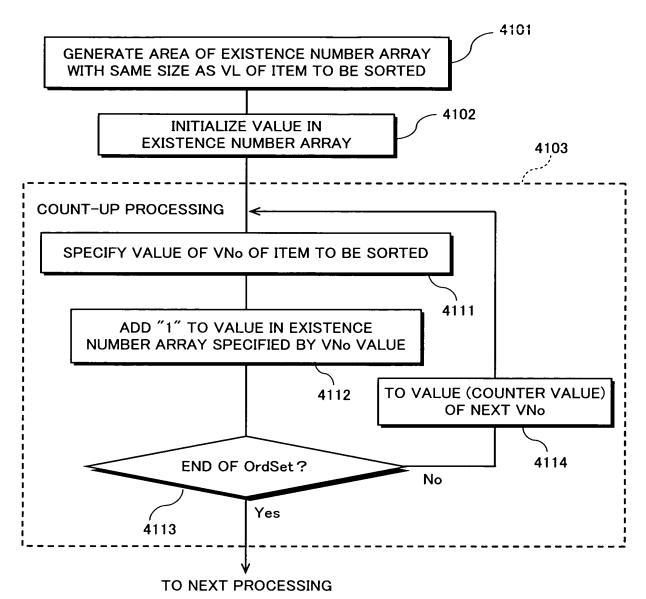
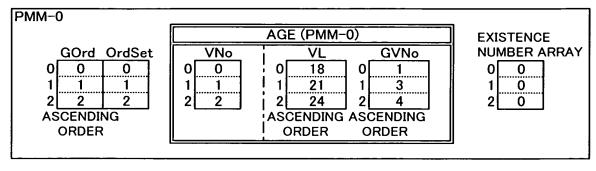
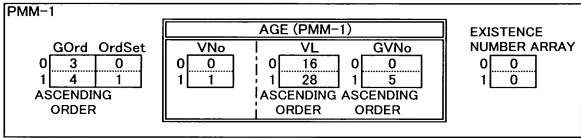
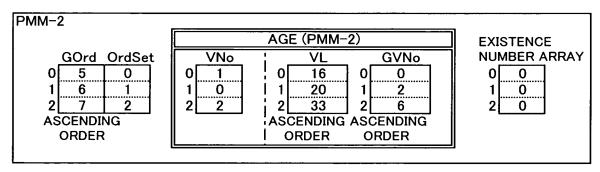


FIG.41









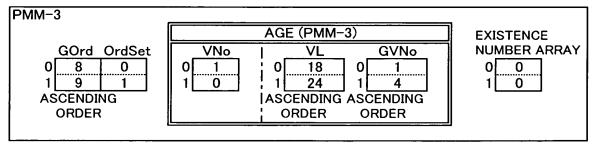


FIG.43

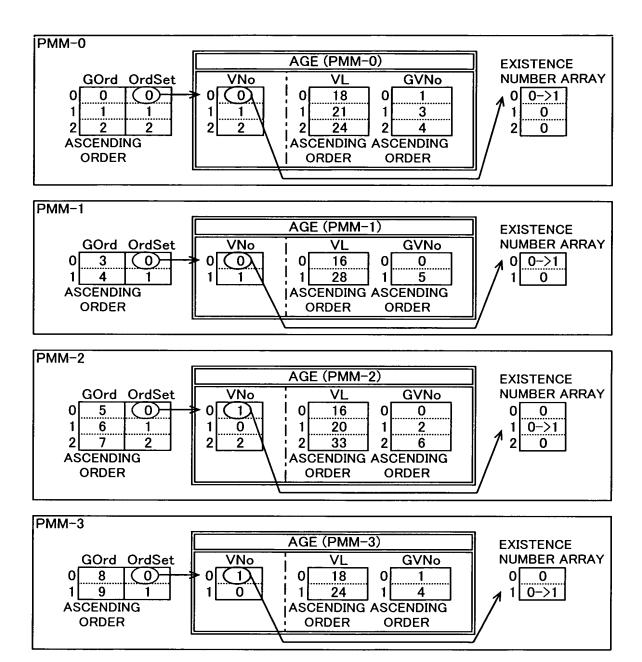
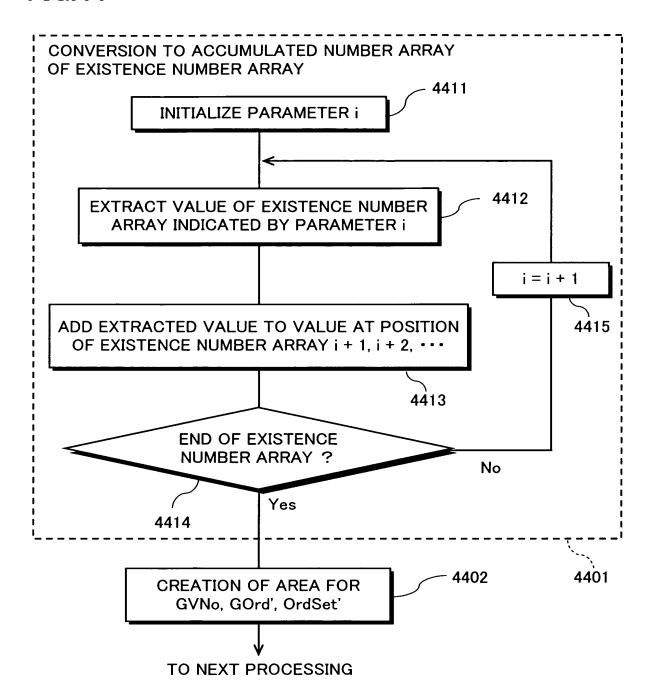


FIG.44

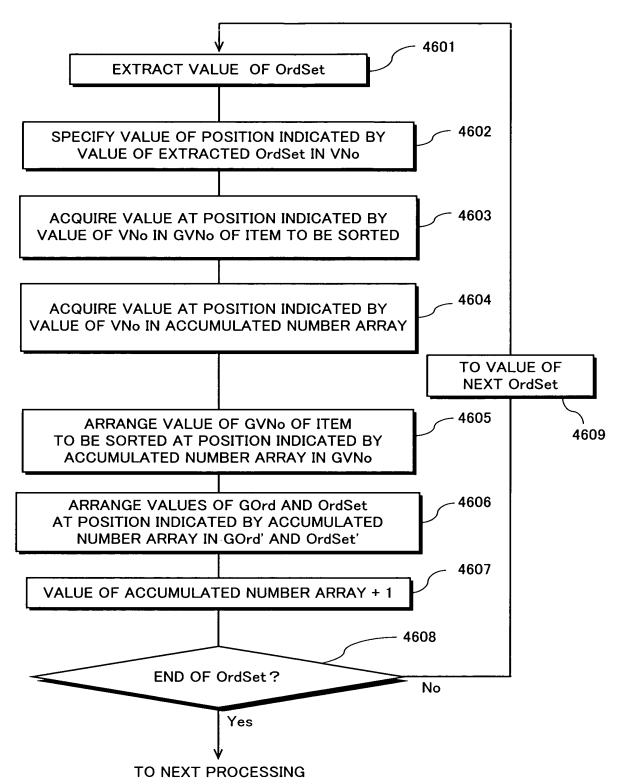


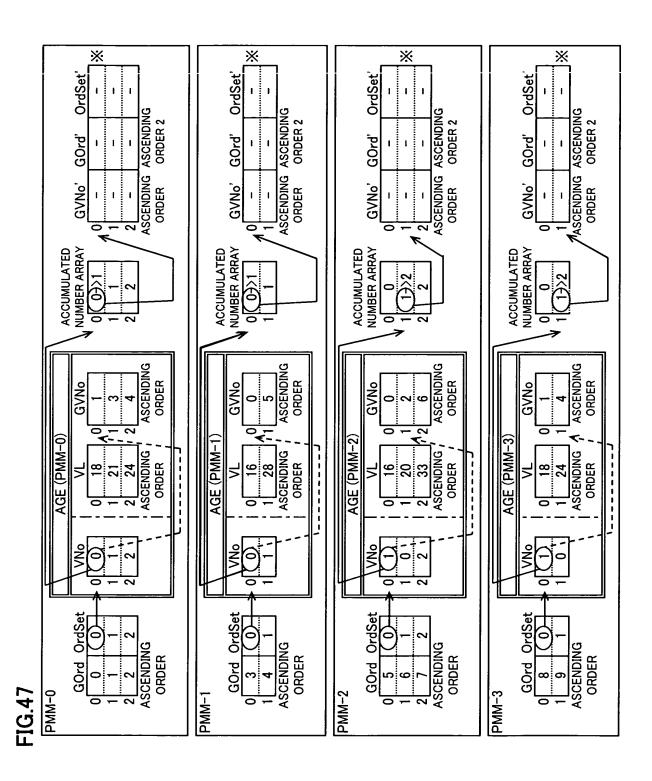
GVNo' GOrd' OrdSet' GVNo' GOrd' OrdSet' GVNo' GOrd' OrdSet' GVNo' GOrd' OrdSet ı 1 1 ı **NUMBER ARRAY NUMBER ARRAY NUMBER ARRAY NUMBER ARRAY** ACCUMULATED ACCUMULATED ACCUMULATED ACCUMULATED 0-0 0 **NUMBER ARRAY NUMBER ARRAY NUMBER ARRAY NUMBER ARRAY** EXISTENCE EXISTENCE EXISTENCE EXISTENCE 0 16 0 0 1 28 1 5 ASCENDING ASCENDING ASCENDING ASCENDING ASCENDING ASCENDING GVNo GVNo GVNo GVNo 0 7 ORDER ORDER ORDER ORDER AGE (PMM-2) AGE (PMM-3) AGE (PMM-0) AGE (PMM-1 ORDER ORDER 9288 ORDER ORDER 18 24 18 24 0 2 GOrd OrdSet GOrd OrdSet GOrd OrdSet GOrd OrdSet 0 ASCENDING ASCENDING ASCENDING ASCENDING ORDER ORDER ORDER ORDER 2 9 ~ ထတ PMM-0 PMM-3 PMM-2 PMM-1

FIG.45

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FIG.46





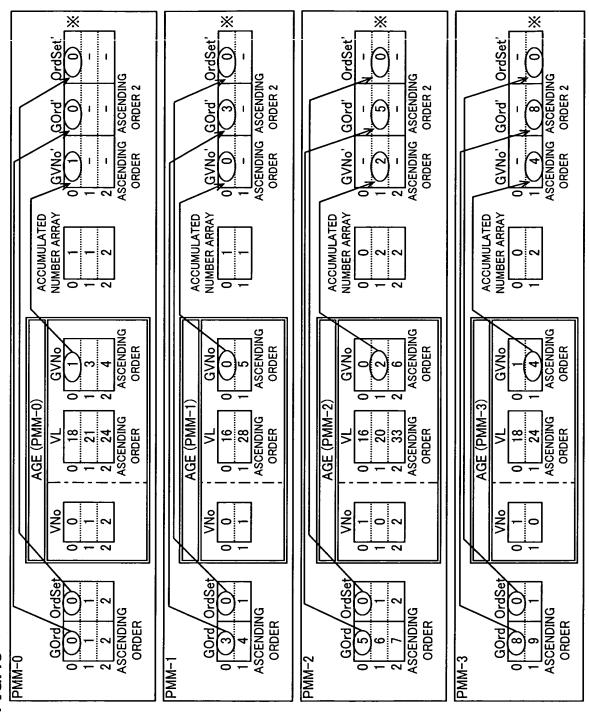
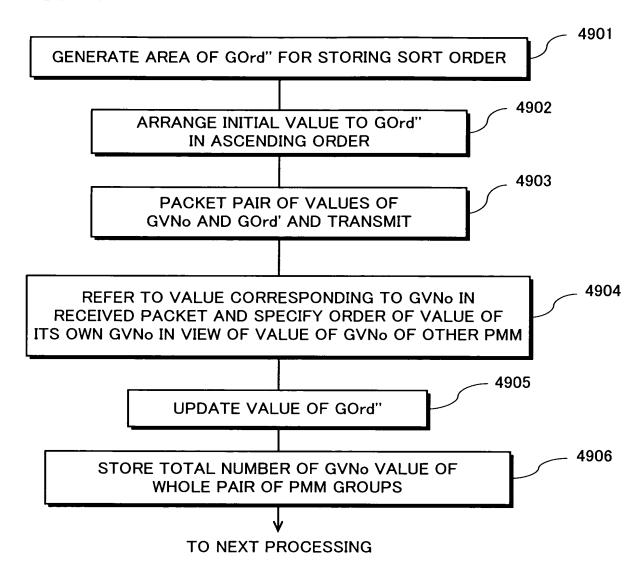
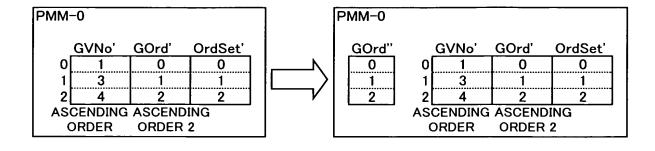
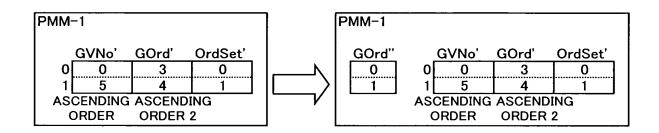
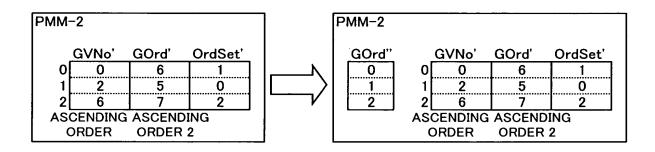


FIG.49









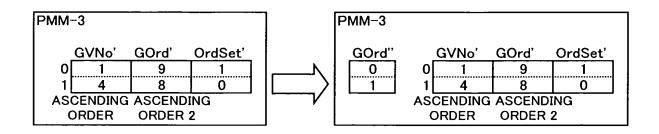


FIG.51

PMM-0 GOrd" GVNo' GOrd' OrdSet' 0 0 0 ASCENDING ASCENDING **ORDER 2** ORDER

DISAPPEARANCE [(0,3), (5,4)] (ASCENDING ORDER) PMM-0 GOrd' [(0,3)] GVNo' GOrd" OrdSet' 0->1 0 1->2 3 2->3 4 ASCENDING ASCENDING **ORDER** ORDER 2 [(5,4)]

GVNo' AND GOrd' ARE PACKETED AND TRANSMITTED [(1,0), (3,1), (4,2)](ASCENDING ORDER)

[(0,3), (5,4)] (ASCENDING ORDER)

TGVNo' AND GOrd' ARE PACKETED AND TRANSMITTED

PMM-1				
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	3	0
1	1	5	4	1
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER	2

PMM-1				
GOrd"		GVNo'	GOrd'	OrdSet'
0->0	0	0	3	0
1->4	1	5 /	4	1
	AS	CENDING	ASCEND	ING
ORDER ORDER 2				
,, ^l [(1,0), (3,1), (4,2)]				
., [(1.0), (3.1), (4.2)](ASCENDING ORDER)				

DISAPPEARANCE

DISAPPEARANCE

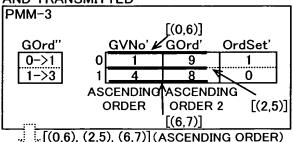
PMM-2			<u>-</u>	
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	6	1
1	1	2	5	0
2	2	6	7	2
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER	2

(1,9), (4,8) (ASCENDING ORDER)					
PMM-2					
				[(1,9)]	
GOrd"	_	GVNo		GOrd'	OrdSet'
0->0	0	0	V	6	1
1->2	1[2		5	0
2->4	2	6	A	7	2
	AS	CENDIN	£	ASCEN	DING
	(ORDER	Ī	ORDER	2
				[(4,8)]	
DANICANTTE	$\overline{}$				

GVNo' AND GOrd' ARE PACKETED AND TRANSMITTED [(0.6), (2.5), (6.7)](ASCENDING ORDER)

[(1,9), (4,8)] (ASCENDING ORDER)

TGVNo' AND GOrd' ARE PACKETED AND TRANSMITTED PMM-3 GOrd" GVNo' GOrd' OrdSet' 0 9 8 ASCENDING ASCENDING **ORDER ORDER 2**



DISAPPEARANCE

FIG.52A

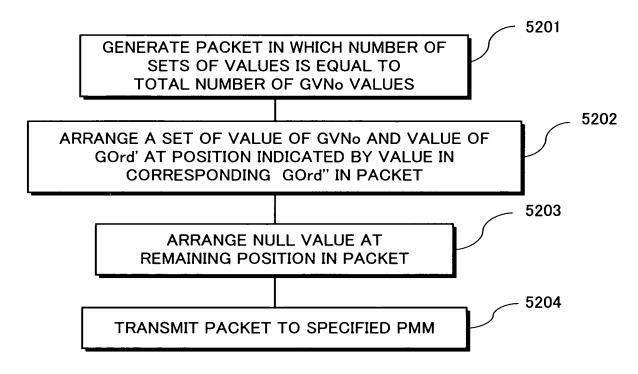


FIG.52B

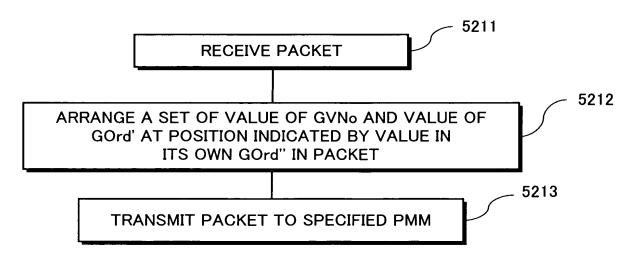


FIG.53

РММ-0			•	
GOrd"		GVNo'	GOrd'	OrdSet'
1	0	1	0	0
2	1	3	1	1
3	2	4	2	2
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER	2
_				

PMM-0				. "
GOrd"		GVNo'	GOrd'	OrdSet'
1	0	1	0	0
2	1	3	1	1
3	2	4	2	2
1	AS	CENDING	ASCEND	NG
	(ORDER	ORDER :	2

GVNo' AND GOrd' ARE PACKETED AND TRANSMITTED [-, (1,0), (3,1), (4,2), -] (ASCENDING ORDER)

PMM-1				
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	3	0
4	1 [5	4	1
	AS	CENDING	ASCEND	ING
	(DRDER	ORDER	2

PMM-1				
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	3	0
4	1	5	4	1
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER	2

PACKETED AND TRANSMITTED
[(0,3), (1,0), (3,1), (4,2), (5,4)]
(ASCENDING ORDER)
(ASCENDING ORDER)

[(0,6), (1,9), (2,5), (4,8), (6,7)] GVNo' AND GOrd' ARE

PACKETED AND TRANSMITTED

GVNo' AND GOrd' ARE

PMM-2				
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	6	1
2	1	2	5	0
4	2	6	7	2
	AS	CENDING	ASCEND	NG
	(ORDER	ORDER :	2

РММ-2				
GOrd"	_	GVNo'	GOrd'	OrdSet'
0	0	0	6	1
2	1 [2	5	0
4	2	6	7	2
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER	2

[-, (1,9), -, (4,8), -](ASCENDING ORDER)

GVNo' AND GORD' ARE PACKETED AND TRANSMITTED

	_ G V 1 1 0	AIND GC	AU AIL	AONLILL
PMM-3	3			
GOr	<u>d"</u>	GVNo'	GOrd'	OrdSet'
1	0	1	9	1
3	1	4	8	0
	AS	CENDING	ASCENDI	NG
	(ORDER	ORDER :	2

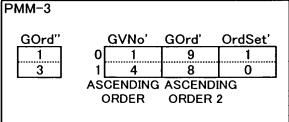
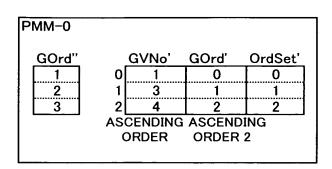
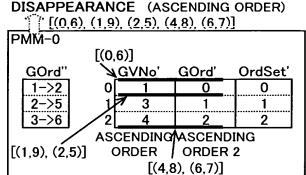


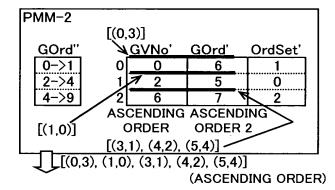
FIG.54



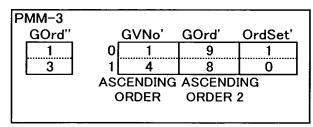


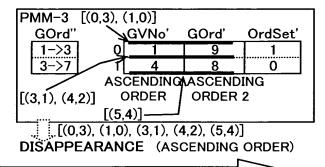
(ASCENDING ORDER) **[**(0,6), (1,9), (2,5), (4,8), (6,7)] PMM-1 [(0,6), (1,9), (2,5), (4,8)] GOrd" GVNo' GOrd' OrdSet' 0->0 0 3 0 4->8 4 5 1 ASCENDING ASCENDING **ORDER 2** ORDER [(6.7)]

PMM-1				·
GOrd"		GVNo'	GOrd'	OrdSet'
0	0	0	3	0
8	1	5	4	1
	AS	CENDING	ASCEND	ING
	(ORDER	ORDER :	2



PMM-2				
GOrd"		GVNo'	GOrd'	OrdSet'
1	0[0	6	1
4	1	2	5	0
9	2	6	7	2
			ASCEND: ORDER	





55/ 60							
VNo VL	VNO	VNo VL GVNo 1 55 1 2 4 ORDER ORDER ORDER ORDER ORD	WEIGHT (PMIM-3) VNo				
VNO 1 0 1 1 2 2 1 1 2 2 1 2 1 1 1 2 1 2 1 1 1 1 2 1	NNo	HEIGHT (PMM-2) CVNo	GVNo VNo VL GVNo 1 0 1 0 1 0 3 ENDING RDER ORDER ORDER				
AGE (NO O O O O O O O O O O O O O O O O O O	AGE (PMM-1) VNo VL GVNo 0 0 16 0 0 1 28 1 5 1 1 28 1 5 1 SCENDING ASCENDING ORDER ORDER	AGE (PMM-2) VNo VL 0 1 0 16 0 1 2 33 2 ASCENDING ASC ORDER 0	AGE (PMM-3) VNO VL VL 10 18 0 124 1 ASCENDING ASC ORDER O				
Set VNo VL G 1 0 1 1 EMALE 1 2 1 ASCENDING ASCE	JSet VNo VL GVNo OL TI EMALE O O O OL TI EMALE O OL TI EMALE O OL TI EMALE ORDER ORDER	GENDER (PMM-2)	Set VNo VL VL O MALE I I FEMALE ASCENDING ORDER				
GORDONAS ET = 0 GORDONAS ET = 0 1	GOrd OrdSet GOrd OrdSet O 0 0 1 8 1 ASCENDING ORDER	OFFSET= 5 GOrd OrdSet 0 1 1 1 4 0 2 9 2 ASCENDING ORDER	OFFSET= 8 GOrd OrdSet 1 7 0 ASCENDING ORDER				

FIG.5(

FIG.57

	GENDER	AGE	HEIGHT	WEIGHT
0	FEMALE	18	168	55
1	MALE	21	172	64
2	FEMALE	24	159	48
3	FEMALE	16	172	48
4	MALE	28	181	78
5	FEMALE	20	166	55
6	FEMALE	16	168	52
7	MALE	33	174	65
8	MALE	24	177	64
9	FEMALE	18	170	55

BEFORE SORT

	GENDER	AGE	HEIGHT	WEIGHT
3	FEMALE	16	172	48
6	FEMALE	16	168	52
0	FEMALE	18	168	55
9	FEMALE	18	170	55
5	FEMALE	20	166	55
1	MALE	21	172	64
2	FEMALE	24	159	48
8	MALE	24	177	64
4	MALE	28	181	78
7	MALE	33	174	65

AFTER SORT

57/60											
5800	WEIGHT(kg)	55	64	48	48	78	55	52	65	64	55
	HEIGHT(cm)	168	172	159	172	181	166	168	174	177	170
	AGE	18	21	24	16	28	20	16	33	24	18
	GENDER	0 FEMALE	1 MALE	2 FEMALE	3 FEMALE	4 MALE	5 FEMALE	6 FEMALE	7 MALE	8 MALE	9 FEMALE
FIG.58B	OrdSet	0 3	9	2 0	3	5	5 1	6 2	7 8	8 4	9 7
E			_			<u></u>		<u> </u>	_		
	WEIGHT(kg)	55	64	48	48	78	55	52		64	55
	HEIGHT(cm)	168	172	159	172	181	166	168	17	17	170
	AGE	18	21	24	16	28	20	16	33	24	18
	GENDER	D FEMALE	1 MALE	2 FEMALE	3 FEMALE	4 MALE	5 FEMALE	6 FEMALE	7 MALE	8 MALE	9 FEMALE
		_									
FIG.58A	OrdSet	0	-	2 2	3	4 4	5 5	9 9	7 7	8	6

The state of the s

FIG.59

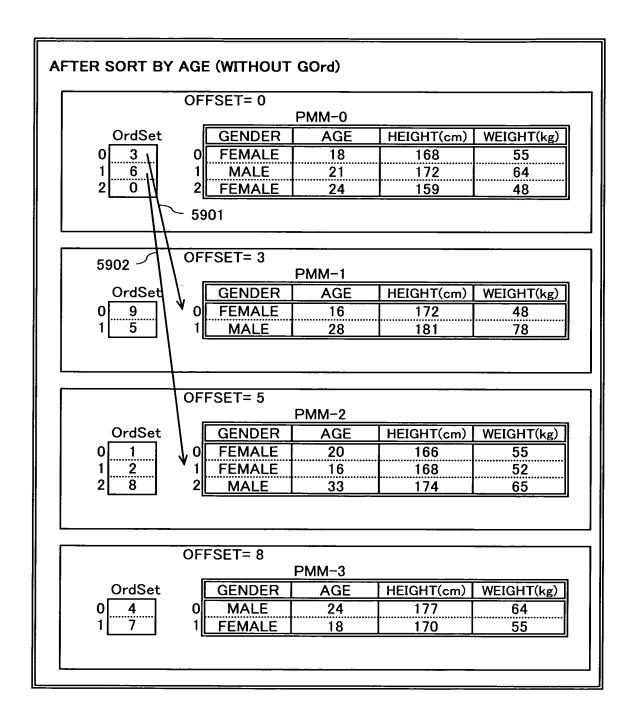
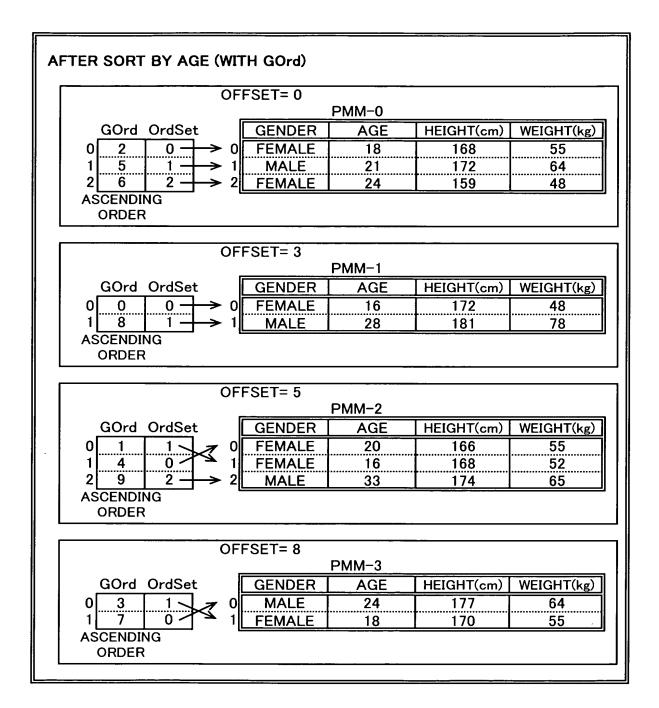
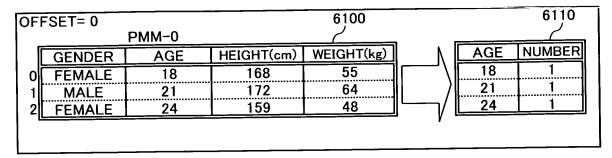
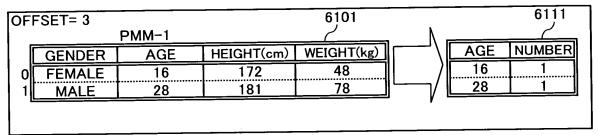
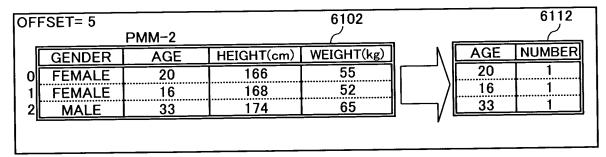


FIG.60









OF	FSET= 8	PMM-3		6103	. \	6113
[GENDER	AGE	HEIGHT(cm)	WEIGHT(kg)	AGE	NUMBER
lol	MALE	24	177	64	/ 24	1
1	FEMALE	18	170	55	<u> </u>	<u> </u>
'					•	